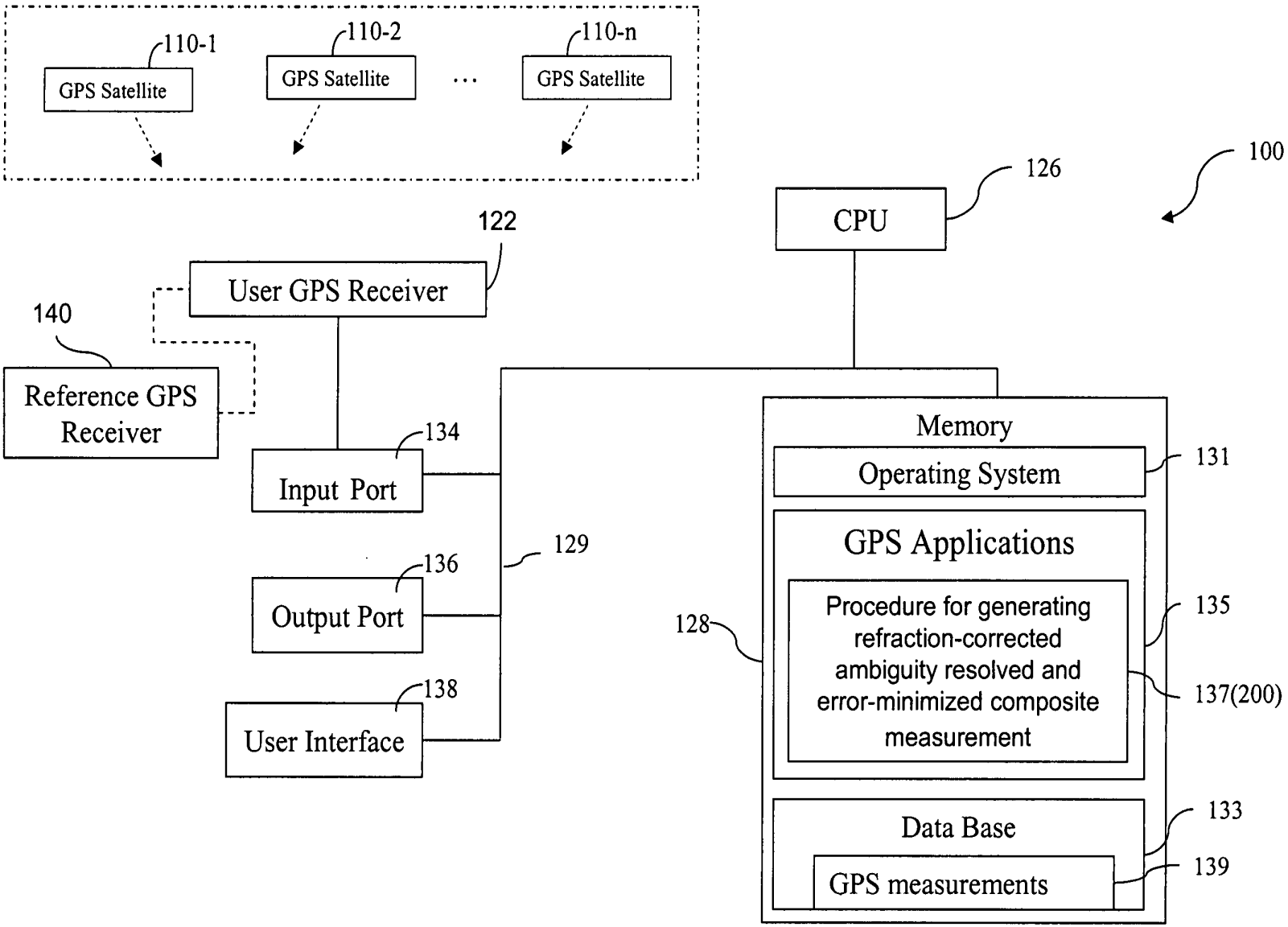
110-1
GPS Satellite
110-2
GPS Satellite
110-n
GPS Satellite
100
126
CPU
122
User GPS Receiver
140
Reference GPS Receiver
134
Input Port
136
Output Port
138
User Interface
129
Memory
Operating System
131
GPS Applications
128
Procedure for generating refraction-corrected ambiguity resolved and error-minimized composite measurement
135
137(200)
Data Base
133
GPS measurements
139

FIGURE 1

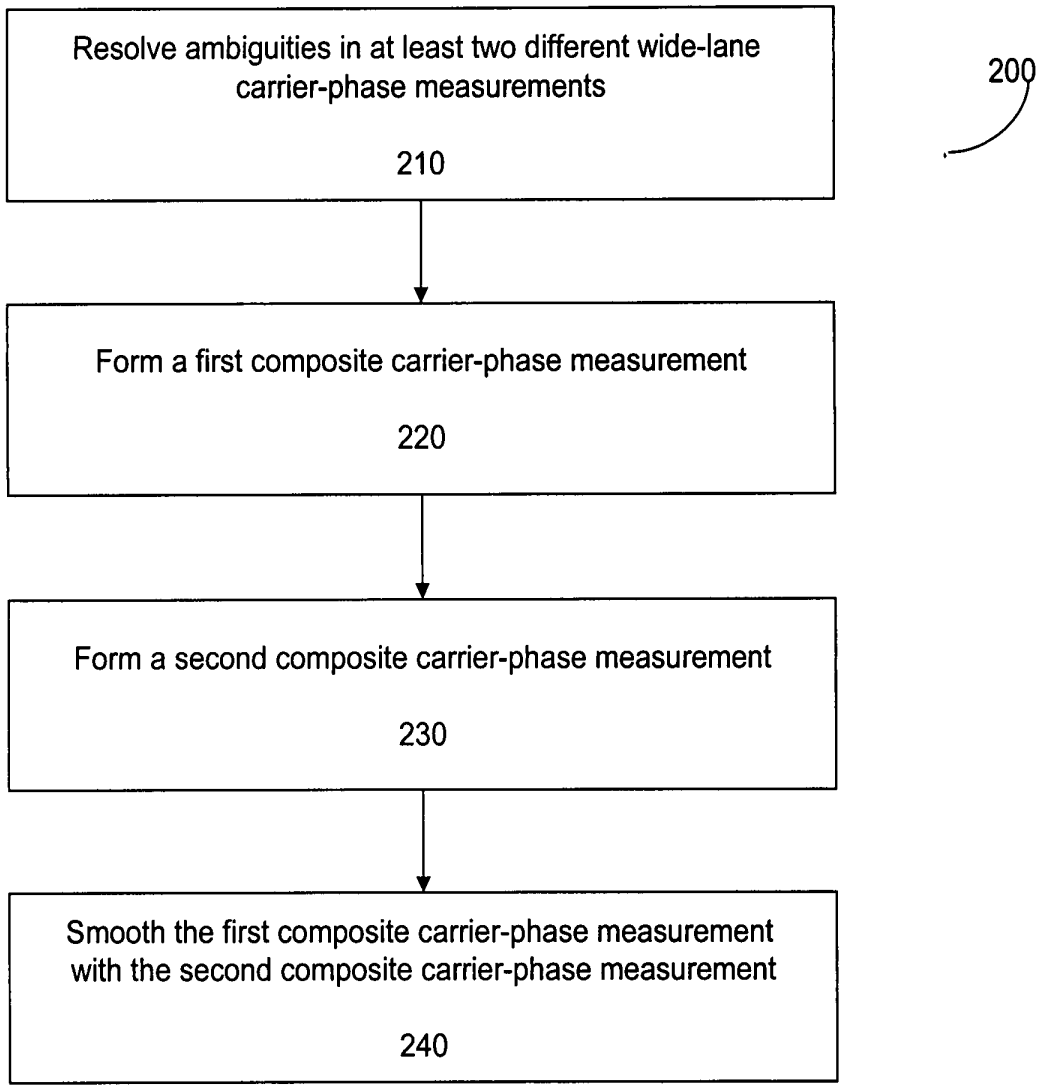
Resolve ambiguities in at least two different wide-lane carrier-phase measurements
210
200
Form a first composite carrier-phase measurement
220
Form a second composite carrier-phase measurement
230
Smooth the first composite carrier-phase measurement with the second composite carrier-phase measurement
240

FIGURE 2

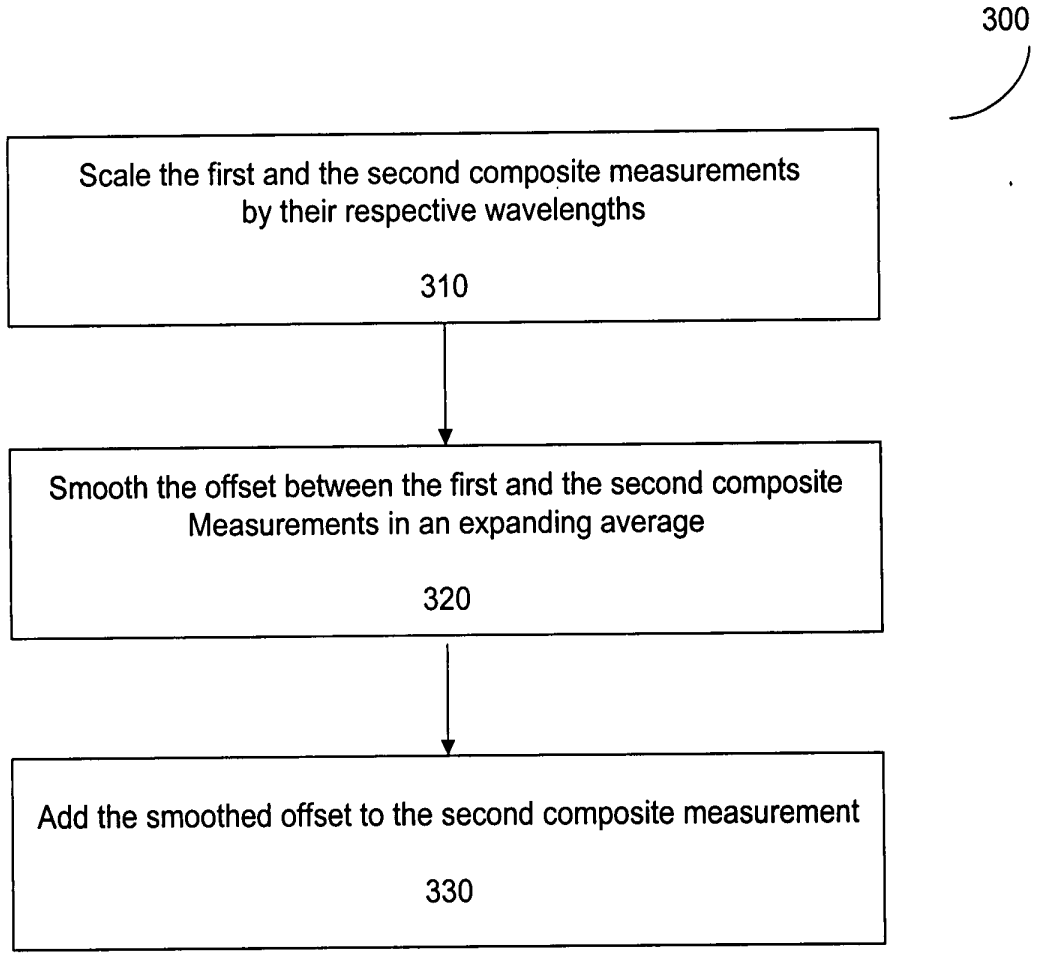
300
Scale the first and the second composite measurements by their respective wavelengths
310
Smooth the offset between the first and the second composite Measurements in an expanding average
320
Add the smoothed offset to the second composite measurement
330

FIGURE 3